

Static Magnetic Susceptibility of the Systems with Anisotropic Kondo Interaction

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Abstract

We theoretically investigated the static magnetic susceptibility in the heavy fermion compounds $\text{YbRh}(\text{Formula presented.})\text{Si}(\text{Formula presented.})$ and $\text{YbIr}(\text{Formula presented.})\text{Si}(\text{Formula presented.})$. The molecular field approximation together with the renormalization of the Kondo interaction by the high-energy conduction electron excitations results in the Curie-Weiss law and Van Vleck susceptibility with temperature-dependent Curie and Weiss parameters. © 2014 Springer-Verlag Wien.

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